

US EPA ARCHIVE DOCUMENT



U.S. ENVIRONMENTAL PROTECTION AGENCY

Air Sampling Report

Location Name/ID	GI05
City, State	Grand Isle, Louisiana
Latitude	29.25346
Longitude	-89.95943

SCREENING LEVELS FOR ONE YEAR AVERAGE EXPOSURE TO VOLATILE ORGANIC COMPOUNDS (VOCs) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms/cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Toluene: 5000 µg/m3 and below Ethylbenzene: 3000 µg/m3 and below Xylene: 3000 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Toluene: Above 5000 µg/m3 Ethylbenzene: Above 3000 µg/m3 Xylene: Above 3000 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Volatile Organic Compounds Chemical Results in µg/m3

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/21/2010	.56	.76	.76	.66
08/20/2010	.57	.78	.78	.67
08/19/2010	.5	.69	.69	.6
08/18/2010	.6	.81	.81	.7
08/17/2010	.56	.76	.76	.66
08/16/2010	1.4	.85	.85	1.2
08/15/2010	.58	.79	.79	.69
08/14/2010	.57	.78	.78	.67

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/12/2010	.77	.73	.73	.68
08/11/2010	.64	.87	.87	.76
08/10/2010	.69	.83	.83	.98
08/09/2010	.57	.78	.78	.67
08/08/2010	.64	.78	.78	.67
08/07/2010	.68	.83	.83	.76
08/06/2010	.56	.73	.73	.63
08/05/2010	1.2	.8	.8	1.5
08/04/2010	.58	.79	.79	.69
08/03/2010	.57	.78	.78	.67
08/02/2010	.63	.67	.67	.58
08/01/2010	.62	.76	.76	.86
07/31/2010	.9	.82	.82	.92
07/30/2010	1.1	.92	.92	1
07/29/2010	.56	.76	.76	.66
07/28/2010	.69	.94	.94	.82
07/27/2010	.54	.74	.74	.64
07/24/2010	.63	.85	.85	.74
07/23/2010	.51	.7	.7	.61

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/22/2010	.52	.71	.71	.62
07/21/2010	1.95	2.7	2.7	2.35
07/20/2010	.52	.71	.71	.62
07/19/2010	.48	.66	.66	.57
07/18/2010	.5	.67	.67	.58
07/17/2010	.58	.79	.79	.69
07/14/2010	.57	.78	.78	.93
07/13/2010	.605	.82	.82	.715
07/12/2010	.51	.7	.7	.83
07/11/2010	1.2	1.6	1.6	1.4
07/10/2010	.57	.78	.78	.67
07/09/2010	.56	.76	.76	.66
07/08/2010	.54	.73	.73	.63
07/07/2010	.5	.67	.67	.58
07/06/2010	.64	.87	.87	.76
07/05/2010	.55	.74	.74	.64
07/04/2010	.54	.73	.73	.63
07/03/2010	.6	.81	.81	.73
07/02/2010	3.4	4.6	4.6	4

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/01/2010	1.5	2	2	1.8
06/30/2010	.63	.85	.85	.74
06/29/2010	.68	.92	.92	.8
06/28/2010	.57	.78	.78	.67
06/27/2010	.56	.76	.76	.66
06/26/2010	.56	.76	.76	.66
06/25/2010	.52	.71	.71	.62
06/24/2010	.52	.71	.71	.62
06/23/2010	.99	1.345	1.345	1.195
06/21/2010	1	1.4	1.4	1.2
06/20/2010	.56	.76	.76	.66
06/19/2010	1.5	.73	.73	1.7
06/18/2010	.75	.87	.87	.855
06/17/2010	5.4	1.2	1.2	13
06/16/2010	.605	.82	.82	.715
06/14/2010	.58	.79	.79	.68
06/13/2010	.6	.81	.81	.7
06/12/2010	.63	.85	.85	.74
06/11/2010	.57	.78	.78	.67

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
06/10/2010	.61	.83	.83	.72
06/09/2010	.6	.82	.82	.71
06/08/2010	.56	.73	.73	.64
06/07/2010	.64	.86	.86	.75
06/06/2010	.59	.8	.8	.69



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Semi Volatile Organic Compounds
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZ(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/06/2010	.034	.034	.034	.034	.034	.034	.034	.16
08/05/2010	.034	.034	.034	.034	.034	.034	.034	.12
06/23/2010	.035	.035	.035	.035	.035	.035	.035	.035
06/21/2010	.036	.036	.036	.036	.036	.036	.036	.0075
06/20/2010	.036	.036	.036	.036	.036	.036	.036	.011
06/19/2010	.036	.036	.036	.036	.036	.036	.036	.024
06/18/2010	.0355	.0355	.0355	.0355	.0355	.0355	.0355	.0185
06/17/2010	.036	.036	.036	.036	.036	.036	.036	.02

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
06/15/2010	.037	.037	.037	.037	.037	.037	.037	.021
06/14/2010	.0355	.0355	.0355	.0355	.0355	.0355	.0355	.00695
06/13/2010	.036	.036	.036	.036	.036	.036	.036	.005



Air Sampling Report

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SCREENING LEVELS FOR ONE-YEAR AVERAGE EXPOSURE TO POLYCYCLIC AROMATIC COMPOUNDS (PAHS) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms /cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Benzo(a)pyrene: .64 µg/m3 and below ** Benzo(a)anthracene: 6.4 µg/m3 and below Benzo(b) fluoranthene: 6.4 µg/m3 and below Benzo(k) fluoranthene: 6.4 µg/m3 and below Chrysene: 64 µg/m3 and below Dibenz(a,h) anthracene: .58 µg/m3 and below Indeno(1,2,3-c,d) pyrene: 6.4 µg/m3 and below Naphthalene: 30 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Benzo(a)pyrene: Above .64 µg/m3 ** Benzo(a)anthracene: Above 6.4 µg/m3 Benzo(b) fluoranthene: Above 6.4 µg/m3 Benzo(k) fluoranthene: Above 6.4 µg/m3 Chrysene: Above 64 µg/m3 Dibenz(a,h) anthracene: Above .58 µg/m3 Indeno(1,2,3-c,d) pyrene: Above 6.4 µg/m3 Naphthalene: Above 30 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
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Polycyclic Aromatic Hydrocarbons
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/06/2010	.034	.034	.034	.034	.034	.034	.034	.16
08/05/2010	.034	.034	.034	.034	.034	.034	.034	.12
06/23/2010	.035	.035	.035	.035	.035	.035	.035	.035
06/21/2010	.036	.036	.036	.036	.036	.036	.036	.0075
06/20/2010	.036	.036	.036	.036	.036	.036	.036	.011
06/19/2010	.036	.036	.036	.036	.036	.036	.036	.024

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
06/18/2010	.0355	.0355	.0355	.0355	.0355	.0355	.0355	.0185
06/17/2010	.036	.036	.036	.036	.036	.036	.036	.02
06/15/2010	.037	.037	.037	.037	.037	.037	.037	.021
06/14/2010	.0355	.0355	.0355	.0355	.0355	.0355	.0355	.00695
06/13/2010	.036	.036	.036	.036	.036	.036	.036	.005



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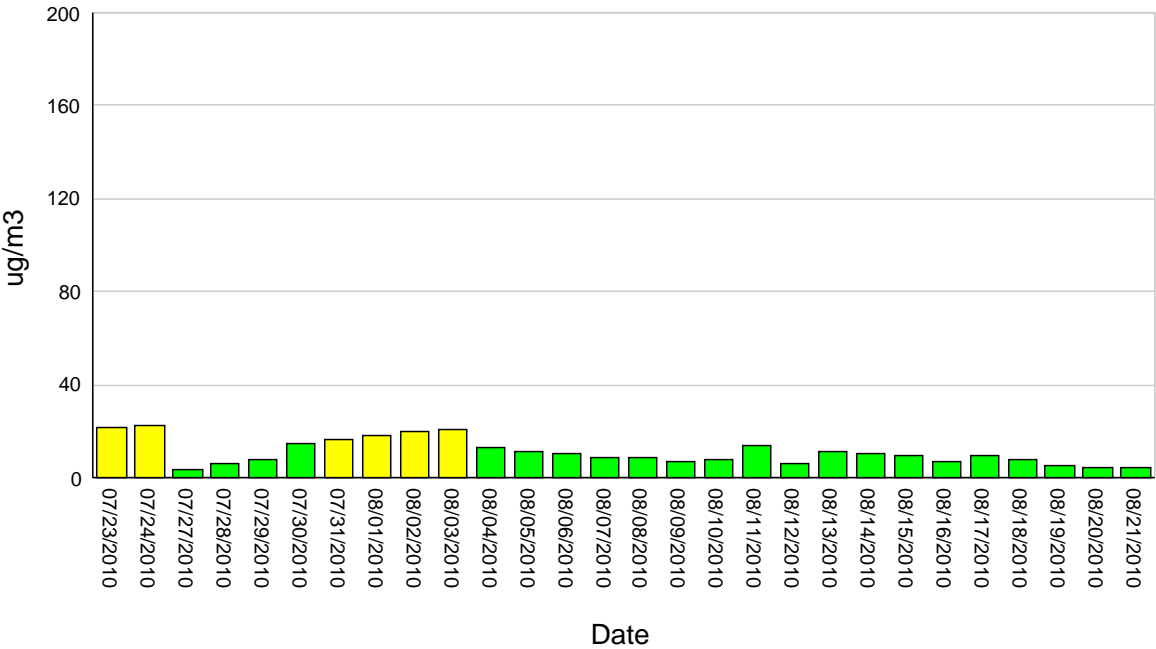
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Localized Monitoring PM2.5 Daily Averages	Index Value	Air Quality Index Levels of Health Concern	Cautionary Statements
0-15.4	0 to 50	Good	None
15.5-35.4	51 to 100	Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
35.5-65.4	101 to 150	Unhealthy for Sensitive Groups	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion.
65.5-150.4	151 to 200	Unhealthy	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion.
150.5-250.4	201 to 300	Very Unhealthy	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
250.5-500.4	301 to 500	Hazardous	People with heart or lung disease, older adults, and children should remain indoors and keep activity levels low. Everyone else should avoid all physical activity outdoors.

Particulates
Chemical Results in µg/m3

DATE RANGE	Particulate Matter 2.5 microns
08/21/2010	4.21053
08/20/2010	4.09207
08/19/2010	4.79
08/18/2010	7.46
08/17/2010	9.52975
08/16/2010	6.83942



DATE RANGE	Particulate Matter 2.5 microns
08/15/2010	9.64912
08/14/2010	10.2639
08/13/2010	10.9053
08/12/2010	5.83788324
08/11/2010	13.5833
08/10/2010	7.61188
08/09/2010	6.71483
08/08/2010	8.83333
08/07/2010	8.70657
08/06/2010	10.3218
08/05/2010	11.53846154
08/04/2010	12.7039
08/03/2010	20.4659
08/02/2010	19.4421
08/01/2010	17.7278
07/31/2010	15.9632
07/30/2010	14.8133
07/29/2010	7.89808917
07/28/2010	6.38564

DATE RANGE	Particulate Matter 2.5 microns
07/27/2010	3.70059
07/24/2010	22.4568
07/23/2010	21.3483
07/22/2010	19.94960101
07/21/2010	15.0524
07/20/2010	12.5833
07/19/2010	12.84
07/18/2010	9.42
07/17/2010	8.98
07/16/2010	16.89
07/15/2010	13.36
07/14/2010	21.7191
07/13/2010	14.9204
07/12/2010	14.42
07/11/2010	6.45
07/10/2010	8.46
07/09/2010	13.44
07/08/2010	17.31
07/07/2010	13.07

DATE RANGE	Particulate Matter 2.5 microns
07/06/2010	11.1577
07/05/2010	7.16695
07/04/2010	8.49535
07/03/2010	11.6807
07/02/2010	10.9091
07/01/2010	5.48
06/30/2010	11.96
06/29/2010	14.52
06/28/2010	12.563
06/27/2010	12.4054
06/26/2010	9.62099
06/25/2010	13.1421
06/24/2010	5.78
06/23/2010	7.50738
06/21/2010	16.5602
06/20/2010	14.9874
06/19/2010	8.18911
06/18/2010	9.55751
06/17/2010	11.21930567

DATE RANGE	Particulate Matter 2.5 microns
06/16/2010	16.5
06/14/2010	15.7281
06/13/2010	15.19
06/12/2010	12.94
06/11/2010	13.26
06/10/2010	21.38
06/09/2010	20.69
06/08/2010	13.09
06/07/2010	14.74
06/06/2010	10.24